

a Fresnel lens sheet forming Fresnel lenses at an emission side of said light;

a first configuration element having:

a plurality of lenticular lenses at an incidence side of light emitted from said Fresnel lens sheet;

light passing windows formed at a light emission side of said first configuration element and each provided at a place in close proximity to each focal point of said lenticular lenses;

a plurality of light absorbing layers each provided among said light passing windows; and

a second configuration element placed on said emission side of said first configuration element;

wherein a pitch of said light passing windows formed on said first configuration element is made smaller than a pitch of pixels projected and enlarged on said screen from said image produced by said picture display device; and

wherein said second configuration element is adhered to said first configuration element so as to eliminate an air boundary surface therebetween.

2. (amended) A screen according to claim 1 wherein an emission surface of a light passing plate provided on said second configuration element is subjected to a reflection preventing process for preventing reflection of a visible

light.

3. (amended) A screen according to claim 1 wherein, on an emission side of a light passing plate provided on said second configuration element, there is provided a reflection preventing film for preventing reflection of a visible light.

*and*

4. (amended) A screen according to claim 2 wherein a light scattering material is mixed inside said light passing plate.

5. (amended) A screen according to claim 2 wherein a light scattering layer is provided between said light passing plate and said first configuration element.

6. (amended) A screen according to claim 1 wherein:  
said Fresnel lenses of said Fresnel lens sheet are laid out at a pitch  $F_p$ ;  
said light passing windows are laid out in a horizontal direction of said screen at a pitch  $L_p$ ; and  
a ratio  $L_p/F_p$  of said pitch  $L_p$  to said pitch  $F_p$  is set at a value in the range 1.588 to 1.649.

7. (amended) A screen for projecting an enlarged picture on said screen from a picture display apparatus

including a light source, a picture display device implemented as a matrix of pixels each having a means for modulating the intensity of a light generated by said light source, and a projection optical means for projecting said displayed picture appearing on said picture display device,

said screen comprising:

a first configuration element having a plurality of lenticular lenses provided on a light-emission side of said picture display device and light absorbing layers provided on a light-emission side of said lenticular lenses; and

a light passing second configuration element provided on said light-emission side of said first configuration element;

said lenticular lenses having a longitudinal direction coinciding with a screen surface vertical direction and laid out contiguously in a screen surface horizontal direction; and

said light absorbing layers sandwiched by boundaries of any two adjacent openings each provided at a location in close proximity to a focal point of one of said lenticular lenses associated with said opening;

wherein:

said first and second configuration elements are bound or stuck to each other so as to eliminate an air boundary surface therebetween;

a pitch of said openings is made smaller than a pitch of pixels projected and enlarged on said screen from said

displayed picture output by said picture display device; and  
a pitch of interference lines caused by interference  
between a pitch of an opening of said lenticular lenses and a  
pitch in the horizontal direction of pixels projected and  
enlarged on said screen from said image produced by said  
picture display device is set at a value equal to or smaller  
than said pitch of pixels projected and enlarged on said  
screen from said displayed picture output by said picture  
display device.

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*Ar* 12. (amended) A screen according to claim 7 wherein a  
third configuration element having Fresnel lenses is provided  
on a light-incidence side of said first configuration element;  
said Fresnel lenses of said third configuration element  
laid out at a lens pitch  $F_p$ ;  
said openings of said first configuration element are  
laid in a horizontal direction of said screen at a pitch  $L_p$ ;  
a ratio  $L_p/F_p$  of said lens pitch  $L_p$  to said pitch  $F_p$  is  
at a value in the range 1.588 to 1.649; and  
a pitch  $M_{pl}$  of moire lines is set at a value smaller than  
a pitch  $I_{ph}$  of pixels projected and enlarged on said screen in  
a screen horizontal direction from said displayed picture  
output by said picture display device.

13. (amended) A projection-type picture display

apparatus comprising:

a light source;  
a picture display device implemented as a matrix of pixels for modulating the intensity of a light generated by said light source; and

a projection optical means for projecting a picture appearing on said picture display device, a Fresnel lens sheet placed on an emission side of said picture display device;

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a first configuration element having:

lenticular lenses provided on an incidence side of a light passing through said Fresnel lens sheet; and

light absorbing layers each provided at a place in close proximity to the focal point of one of said lenticular lenses and are separated from each other by a predetermined distance for forming a light passing window;

a second configuration element having a light passing plate fixed on said emission side of said first configuration element;

wherein a pitch of said light passing windows is made smaller than a pitch of pixels projected and enlarged on a screen by said picture display device; and

wherein said second configuration element is adhered to said first configuration element so as to eliminate an air boundary surface therebetween.

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*OB* 17. (amended) A projection-type picture display apparatus according to claim 13 wherein:

Fresnel lenses of said Fresnel lens sheet are laid out at a pitch  $F_p$ ;

said light passing windows are laid out in a horizontal direction of said screen at a pitch  $L_p$ ; and

a ratio  $L_p/F_p$  of said pitch  $L_p$  to said pitch  $F_p$  is set at a value in the range 1.588 to 1.649.

18. (amended) A projection-type picture display apparatus comprising:

a light source;

a picture display device implemented as a matrix of pixels each having a means for modulating the intensity of a light generated by said light source;

a projection optical means for projecting a displayed image appearing on said picture display device; and

a screen used by said projection optical means to project said displayed image as an enlarge picture and provided with:

a first configuration element having a plurality of lenticular lenses provided on a light-emission side of said picture display device and light absorbing layers provided on a light-emission side of said lenticular lenses, and

a light passing second configuration element provided on said light-emission side of said first

configuration element,

said lenticular lenses having a longitudinal direction coinciding with a screen surface vertical direction and laid out contiguously in a screen surface horizontal direction;

said light absorbing layers sandwiched by boundaries of any two adjacent openings each provided at a location in close proximity to a focal point of one of said lenticular lenses associated with said opening; and

said first and second configuration elements are bound or stuck to each other so as to eliminate an air boundary surface therebetween;

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wherein a pitch of said openings is made smaller than a pitch of pixels projected and enlarged on said screen from said displayed image output by said picture display device; and

a pitch of interference lines caused by interference between a pitch of an opening of said lenticular lenses and a pitch in the horizontal direction of pixels projected and enlarged on said screen from said image produced by said picture display device is set at a value equal to or smaller than said pitch of pixels projected and enlarged on said screen from said displayed image output by said picture display device.

*94* 22. (amended) A projection-type picture display

apparatus according to claim 18 wherein:

a third configuration element having Fresnel lenses is provided on a light-incidence side of said first configuration element;

said Fresnel lenses of said third configuration element are laid out at a lens pitch  $F_p$ ;

said openings of said first configuration element are laid out in a horizontal direction of said screen at a pitch  $L_p$ ;

a ratio  $L_p/F_p$  of said lens pitch  $L_p$  to said pitch  $F_p$  is set at a value in the range 1.588 to 1.649; and

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a pitch  $M_{pl}$  of moire lines is set at a value smaller than a pitch  $I_{ph}$  of pixels projected and enlarged on said screen in a screen horizontal direction from said displayed image output by said picture display device.

23. (amended) A screen comprising:

a Fresnel lens sheet;

a first configuration element having:

lenticular lenses provided on an incidence side of a light passing through said Fresnel lens sheet; and

light absorbing layers each provided at a place in close proximity to the focal point of one of said lenticular lenses and are separated from each other by a predetermined distance for forming a light passing window; and

a second configuration element having a light passing plate fixed on said emission side of said first configuration element;

wherein a pitch of said light passing windows is made smaller than a pitch of pixels projected and enlarged on said screen from said image produced by said picture display device; and

wherein said second configuration element is adhered to said first configuration element so as to eliminate an air boundary surface therebetween.

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QF* 24. (amended) A screen for projecting an enlarged picture on said screen from a picture display apparatus comprising:

a first configuration element having a plurality of lenticular lenses provided on a light-emission side of said picture display device and light absorbing layers provided on a light-emission side of said lenticular lenses, and

a light passing second configuration element provided on said light-emission side of said first configuration element, said lenticular lenses having a longitudinal direction coinciding with a screen surface vertical direction and laid out contiguously in a screen surface horizontal direction; and

said light absorbing layers sandwiched by boundaries of any two adjacent openings each provided at a location in close

proximity to a focal point of one of said lenticular lenses associated with said opening;

wherein said first and second configuration elements are bound or stuck to each other so as to eliminate an air interface therebetween;

a pitch of said openings is made smaller than a pitch of pixels projected and enlarged on said screen from said displayed picture output by said picture display device; and

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a pitch of interference lines caused by interference between a pitch of an opening of said lenticular lenses and a pitch in the horizontal direction of pixels projected and enlarged on said screen from said image produced by said picture display device is set at a value equal to or smaller than said pitch of pixels projected and enlarged on said screen from said displayed picture output by said picture display device.

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Please add the following new claims:

*Q5* --25. A screen according to claim 1, wherein:

a pitch of said lenticular lenses formed on said first configuration element is  $L_p$ ;

a pitch of said Fresnel lens formed on said Fresnel lens sheet is  $F_p$ ;

a ratio of  $L_p/F_p$  of said pitch  $L_p$  to said pitch  $F_p$  is set at a value in the range of 1.588 to 1.649;

a pitch  $Mp_1$  of moire lines caused by said pitch  $L_p$  of said lenticular lenses and said pitch  $F_p$  of said Fresnel lens and a horizontal component  $I_{ph}$  of a pitch  $I_p$  of said pixels enlarged and projected on said screen are substantially equal; and

a ratio  $I_{pv}/F_p$  of a vertical component  $I_{pv}$  of said pitch  $I_p$  of said pixels enlarged and projected on said screen to said pitch  $F_p$  of said Fresnel lens is set to at least 2.

26. A screen according to claim 1, wherein said plurality of lenticular lenses of said first configuration element extend in a vertical direction and are arranged in a horizontal direction at the incident side of light emitted from said Fresnel lens sheet.--

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**IN THE ABSTRACT OF THE DISCLOSURE:**

*Ab* Please amend the abstract as follows: